

NEW ABSTRACT:

Please find the following new abstract:

Abstract of the Disclosure

A high-pressure pump having a drive shaft and at least one pump element including a pump piston driven in a reciprocating motion by the drive shaft. A ring on which the pump piston is braced via a support element is rotatably supported on a portion of the drive shaft that is disposed eccentrically to its pivot axis. The ring and/or the support element, at least in their contact region, has many microscopic indentations, and a solid lubricant film is applied to the ring and/or to the support element, at least in their contact region.